

# Alabama Department of Environmental Management adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 FAX (334) 271-7950

DEC 2 2 2020

JOSEPH R DENNIS PLANT MANAGER G2O TECHNOLOGIES LLC 16693 PLANT ROAD CHILDERSBURG AL 35044

RE: DRAFT PERMIT

NPDES PERMIT NUMBER AL0077186

Dear Mr. Dennis:

Transmitted herein is a draft of the referenced permit.

We would appreciate your comments on the permit within 30 days of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from EPA.

Our records indicate that you are currently utilizing the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs). Your E2 DMRs will automatically update on the effective date of this permit, if issued.

The Alabama Department of Environmental Management encourages you to voluntarily consider pollution prevention practices and alternatives at your facility. Pollution Prevention may assist you in complying with effluent limitations, and possibly reduce or eliminate monitoring requirements.

If you have questions regarding this permit or monitoring requirements, please contact Scott Jackson by e-mail at scott.jackson@adem.alabama.gov or by phone at (334) 394-4366.

Scott Ramsey, Chief Industrial Section

Industrial/Municipal Branch

Water Division

Enclosure:

Sincerely

Draft Permit

pc via website:

Montgomery Field Office

**EPA Region IV** 

U.S. Fish & Wildlife Service AL Historical Commission

Advisory Council on Historic Preservation

Department of Conservation and Natural Resources





# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE:	G2O TECHNO	G2O TECHNOLOGIES, LLC					
FACILITY:	16693 PLANT	G2O TECHNOLOGIES, LLC 16693 PLANT ROAD CHILDERSBURG, AL 35044					
PERMIT NUMBER:	AL0077186						
RECEIVING WATERS:	DSN001: DSN002:	UNNAMED TRIBUTARY TO COOSA RIVER UNNAMED TRIBUTARY TO COOSA RIVER					
Pollution Control Act, as amended, Code of	Alabama 1975, §§ 22- and rules and regulat	Vater Pollution Control Act, as amended, 33 U.S.C. M1251-1388 (the 'FWPCA'), the Alabama Watt. 22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of ions adopted thereunder, and subject further to the terms and conditions set forth in this permit, the serving waters.					
ISSUANCE DATE:							
EFFECTIVE DATE:							
EXPIRATION DATE:							

Draft

Alabama Department of Environmental Management

# INDUSTRIAL SECTION NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

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# PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

#### A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from the following point source(s) outfall(s), described more fully in the permittee's application:

DSN001S: Stormwater from non-process areas associated with alum manufacturing. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

	5	DISCHARGE	LIMITATIONS	<u>S</u>			MONITORING F	REQUIREMENTS 1/	1
		Monthly	Daily	<u>Daily</u>	Monthly -	<u>Daily</u>	Measurement		
	EFFLUENT CHARACTERISTIC	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	Frequency 2/	Sample Type	<u>Seasonal</u>
-	-pH	-	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	-
	Solids, Total Suspended	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
	Oil & Grease	•	-	-	-	15 mg/I	Semi-Annually	Grab	-
	Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
	Phosphorus, Total (As P)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
	Aluminum, Total Recoverable	-	-	•	-	REPORT mg/l	Semi-Annually	Grab	-
	Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Semi-Annually	Estimate 4/	-

# THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of cight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from the following point source(s) outfall(s), described more fully in the permittee's application:

DSN002S: Stormwater from non-process areas associated with alum manufacturing, 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<b>6</b>		MONITORING REQUIREMENTS 1/						
	Monthly	<u>Daily</u>	<u>Daily</u>	Monthly	<u>Daily</u>	Measurement		
EFFLUENT CHARACTERISTIC	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>	Average	<u>Maximum</u>	Frequency 2/	<u>Sample Type</u>	<u>Seasonal</u>
рН	-	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Oil & Grease	-	-	-	•	15 mg/l	Semi-Annually	Grab	-
Nitrogen, Ammonia Total (As N)	-	-	•	-	REPORT mg/l	Semi-Annually	Grab	-
Phosphorus, Total (As P)	-	-	-	•	REPORT m/l	Semi-Annually	Grab	-
Aluminum, Total Recoverable	-	-	-	•	REPORT mg/l	Semi-Annually	Grab	•
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Semi-Annually	Estimate 4/	-

# THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

#### B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

# I. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit.

#### 2. Test Procedures

For the purpose of reporting and compliance, permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance; however, should EPA approve a method with a lower minimum level during the term of this permit the permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit using the most sensitive EPA approved method. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures A and B above shall be reported on the permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

# 3. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The facility name and location, point source number, date, time and exact place of sampling;
- b. The name(s) of person(s) who obtained the samples or measurements;
- c. The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used, including source of method and method number; and
- f. The results of all required analyses.

#### Records Retention and Production

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records shall not be submitted unless requested.

All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

5. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. The permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

#### C. DISCHARGE REPORTING REQUIREMENTS

- 1. Reporting of Monitoring Requirements
  - a. The permittee shall conduct the required monitoring in accordance with the following schedule:

MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.

QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring may be done anytime during the quarter, unless restricted elsewhere in this permit, but it should be submitted with the last DMR due for the quarter, i.e., (March, June, September and December DMR's).

SEMIANNUAL MONITORING shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be submitted with the last DMR for the month of the semiannual period, i.e. (June and December DMR's).

ANNUAL MONITORING shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be submitted with the December DMR.

b. The permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:

REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING shall be submitted on a monthly basis. The first report is due on the 28th day of (MONTH, YEAR). The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF QUARTERLY TESTING shall be submitted on a quarterly basis. The first report is due on the 28th day of [Month, Year]. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF SEMIANNUAL TESTING shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF ANNUAL TESTING shall be submitted on an annual basis. The first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

- c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b by utilizing the Department's web-based Electronic Environmental (E2) Reporting System.
  - (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's E2 Reporting system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b, unless otherwise directed by the Department.

If the E2 Reporting System is down on the 28<sup>th</sup> day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within 5 calendar days of the E2 Reporting System resuming operation, the permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 DMR submittal verifying the original submittal date (date of the fax, copy of the dated e-mail, or hand-delivery stamped date), if applicable.

(2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.

Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.

- (3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
- (4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
- (5) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

Alabama Department of Environmental Management
Permits and Services Division
Environmental Data Section
Post Office Box 301463
Montgomery, Alabama 36130-1463

Certified and Registered Mail containing Discharge Monitoring Reports shall be addressed to:

Alabama Department of Environmental Management
Permits and Services Division
Environmental Data Section
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2400

f. All other correspondence and reports required to be submitted by this permit, the AWPCA, and the Department's Rules shall be addressed to:

# Water Division Post Office Box 301463 Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

# Alabama Department of Environmental Management Water Division 1400 Coliscum Boulevard Montgomery, Alabama 36110-2400

g. If this permit is a re-issuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b above.

# 2. Noncompliance Notification

a. 24-Hour Noncompliance Reporting

The permittee shall report to the Director, within 24-hours of becoming aware of the noncompliance, any noncompliance which may endanger health or the environment. This shall include but is not limited to the following circumstances:

- (1) does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I. A. of this permit which is denoted by an "(X)";
- (2) threatens human health or welfare, fish or aquatic life, or water quality standards;
- does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (4) contains a quantity of a hazardous substance which has been determined may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (5) exceeds any discharge limitation for an effluent characteristic as a result of an unanticipated bypass or upset; and
- (6) is an unpermitted direct or indirect discharge of a pollutant to a water of the state (unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision).

The permittee shall orally report the occurrence and circumstances of such discharge to the Director within 24-hours after the permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c no later than five (5) days after becoming aware of the occurrence of such discharge.

- b. If for any reason, the permittee's discharge does not comply with any limitation of this permit, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c below, such report shall be submitted with the next Discharge Monitoring Report required to be submitted by Part I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Any written report required to be submitted to the Director or Designee by Part I.C.2 a. or b. shall be submitted using a Noncompliance Notification Form (ADEM Form 421) available on the Department's website (http://adem.alabama.gov/DeptForms/Form421.pdf) and include the following information:
  - (1) A description of the discharge and cause of noncompliance;
  - (2) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
  - (3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

#### D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

The permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

# 2. Termination of Discharge

The permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

# 3. Updating Information

- a. The permittee shall inform the Director of any change in the permittee's mailing address, telephone number or in the permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules, and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

#### 4. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

# 5. Cooling Water and Boiler Water Additives

- a. The permittee shall notify the Director in writing not later than thirty (30) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in a cooling or boiler system, not identified in the application for this permit, from which discharge is allowed by this permit. Notification is not required for additives that do not contain a heavy metal(s) as an active ingredient and that pass through a wastewater treatment system prior to discharge nor is notification required for additives that should not reasonably be expected to cause the cooling water or boiler water to exhibit toxicity as determined by analysis of manufacturer's data or testing by the permittee. Such notification shall include:
  - (1) name and general composition of biocide or chemical;
  - (2) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach;
  - (2) quantities to be used;
  - (3) frequencies of use;
  - (4) proposed discharge concentrations; and
  - (6) EPA registration number, if applicable.
- b. The use of a biocide or additive containing tributyl tin, tributyl tin oxide, zinc, chromium or related compounds in cooling or boiler system(s), from which a discharge regulated by this permit occurs, is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or additive will not pose a reasonable potential to violate the applicable State water quality standards for these substances. The use of any additive, not identified in this permit or in the application for this permit or not exempted from notification under this permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

# 6. Permit Issued Based On Estimated Characteristics

- a. If this permit was issued based on estimates of the characteristics of a process discharge reported on an EPA NPDES Application Form 2D (EPA Form 3510-2D), the permittee shall complete and submit an EPA NPDES Application Form 2C (EPA Form 3510-2C) no later than two years after the date that discharge begins. Sampling required for completion of the Form 2C shall occur when a discharge(s) from the process(s) causing the new or increased discharge is occurring. If this permit was issued based on estimates concerning the composition of a stormwater discharge(s), the permittee shall perform the sampling required by EPA NPDES Application Form 2F (EPA Form 3510-2F) no later than one year after the industrial activity generating the stormwater discharge has been fully initiated.
- b. This permit shall be reopened if required to address any new information resulting from the completion and submittal of the Form 2C and or 2F.

# E. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

#### COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

Due to the elevated levels of Aluminum reported in the storm water, within 180 days from the effective date of this permit, the Permittee shall update and make available for review by the Director or his designee, upon request, an updated Best Management Practices (BMP) Plan. The BMP Plan shall include steps to be taken to reduce levels of Aluminum in the storm water discharges from the site.

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

#### PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

#### A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

#### Facilities Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

#### 2. Best Management Practices

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The permittee shall prepare, submit for approval and implement a Best Management Practices (BMP) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

# 3. Spill Prevention, Control, and Management

The permittee shall provide spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the state or a publicly or privately owned treatment works. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and which shall prevent the contamination of groundwater and such containment system shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided.

#### B. OTHER RESPONSIBILITIES

#### 1. Duty to Mitigate Adverse Impacts

The permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

# 2. Right of Entry and Inspection

The permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:

- a. enter upon the permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
- b. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- c. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

# C. BYPASS AND UPSET

#### Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:
  - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;

- (2) It enters the same receiving stream as the permitted outfall; and
- (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
  - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
  - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
  - (3) The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The permittee has the burden of establishing that each of the conditions of Provision II.C.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a, and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

# 2. Upset

- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
  - (1) No later than 24-hours after becoming aware of the occurrence of the upset, the permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
  - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that (i) an upset occurred; (ii) the permittee can identify the specific cause(s) of the upset; (iii) the permittee's facility was being properly operated at the time of the upset; and (iv) the permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
- b. The permittee has the burden of establishing that each of the conditions of Provision II. C.2.a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I.A. of this permit.

# D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

- I. Duty to Comply
  - a. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification; or denial of a permit renewal application.
  - b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.
  - c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
  - d. The permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.
  - e. Nothing in this permit shall be construed to preclude and negate the permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, Federal, State, or Local Government permits, certifications, licenses, or other approvals.

# 2. Removed Substances

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

#### 3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

# 4. Compliance with Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36130.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

# E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

- 1. Duty to Reapply or Notify of Intent to Cease Discharge
  - a. If the permittee intends to continue to discharge beyond the expiration date of this permit, the permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the permittee does not intend to continue discharge beyond the expiration of this permit, the permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-0.09.
  - b. Failure of the permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

# 2. Change in Discharge

- a. The permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant such that existing permit limitations would be exceeded or that could result in an additional discharge point. This requirement applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.
- b. The permittee shall notify the Director as soon as it is known or there is reason to believe:
  - (1) That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
    - (a) one hundred micrograms per liter;
    - (b) two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dini-trophenol; and one milligram per liter for antimony;
    - (c) five times the maximum concentration value reported for that pollutant in the permit application; or
  - (2) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
    - (a) five hundred micrograms per liter;
    - (b) one milligram per liter for antimony;
    - (c) ten times the maximum concentration value reported for that pollutant in the permit application.

#### 3. Transfer of Permit

This permit may not be transferred or the name of the permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership or control of the permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership or control, he may decide not to modify the existing permit and require the submission of a new permit application.

#### 4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
  - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
  - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
  - (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
  - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
  - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
  - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
  - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
  - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
  - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
  - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
  - (8) To agree with a granted variance under 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(a) of the FWPCA or for fundamentally different factors;
  - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
  - (10) When required by the reopener conditions in this permit;
  - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
  - Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
  - (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
  - (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

#### 5. Permit Termination

This permit may be terminated during its term for cause, including but not limited to, the following:

- a. Violation of any term or condition of this permit;
- b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;
- A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee; or
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

# 6. Permit Suspension

This permit may be suspended during its term for noncompliance until the permittee has taken action(s) necessary to achieve compliance.

7. Request for Permit Action Does Not Stay Any Permit Requirement

The filing of a request by the permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.

# F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the permittee and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit, or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition and the permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

# G. DISCHARGE OF WASTEWATER GENERATED BY OTHERS

The discharge of wastewater, generated by any process, facility, or by any other means not under the operational control of the permittee or not identified in the application for this permit or not identified specifically in the description of an outfall in this permit is not authorized by this permit.

#### PART III OTHER PERMIT CONDITIONS

#### A. CIVIL AND CRIMINAL LIABILITY

# 1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

#### False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

#### Permit Enforcement

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes.
  - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
  - (2) An action for damages;
  - (3) An action for injunctive relief; or
  - (4) An action for penalties.
- c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:
  - (1) initiate enforcement action based upon the permit which has been continued;
  - (2) issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
  - (3) reissue the new permit with appropriate conditions; or
  - (4) take other actions authorized by these rules and AWPCA.

#### 4. Relief from Liability

Except as provided in Provision II.C.1 (Bypass) and Provision II.C.2 (Upset), nothing in this permit shall be construed to relieve the permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

#### B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

# C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, trespass, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

#### D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under <u>Code of Alabama</u> 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

#### E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

- 1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
- 2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
- 3. Construction has begun when the owner or operator has:
  - a. begun, or caused to begin as part of a continuous on-site construction program:
    - (1) any placement, assembly, or installation of facilities or equipment; or
    - (2) significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
  - b. entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.

#### F. COMPLIANCE WITH WATER OUALITY STANDARDS

- 1. On the basis of the permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.
- 2. Compliance with permit terms and conditions notwithstanding, if the permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
- 3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

# G. GROUNDWATER

Unless specifically authorized under this permit, this permit does not authorize the discharge of pollutants to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

#### H. DEFINITIONS

- 1. Average monthly discharge limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
- 2. Average weekly discharge limitation means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
- 3. Arithmetic Mean means the summation of the individual values of any set of values divided by the number of individual values.

- 4. AWPCA means the Alabama Water Pollution Control Act.
- 5. BOD means the five-day measure of the pollutant parameter biochemical oxygen demand.
- Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- CBOD means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
- 8. Daily discharge means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
- 9. Daily maximum means the highest value of any individual sample result obtained during a day.
- Daily minimum means the lowest value of any individual sample result obtained during a day.
- 11. Day means any consecutive 24-hour period.
- Department means the Alabama Department of Environmental Management.
- 13. Director means the Director of the Department.
- 14. Discharge means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).
- 15. Discharge Monitoring Report (DMR) means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
- 16. DO means dissolved oxygen.
- 17. 8HC means 8-hour composite sample, including any of the following:
  - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
  - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
- 18. EPA means the United States Environmental Protection Agency.
- 19. FC means the pollutant parameter feeal coliform.
- 20. Flow means the total volume of discharge in a 24-hour period.
- 21. FWPCA means the Federal Water Pollution Control Act.
- 22. Geometric Mean means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
- 23. Grab Sample means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
- 24. Indirect Discharger means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
- 25. Industrial User means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
- 26. MGD means million gallons per day.
- 27. Monthly Average means, other than for fecal coliform bacteria, the arithmetic mean of the entire composite or grab samples taken for the daily discharges collected in one month period. The monthly average for fecal coliform bacteria is the geometric mean of daily discharge samples collected in a one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.

- 28. New Discharger means a person, owning or operating any building, structure, facility or installation:
  - a. from which there is or may be a discharge of pollutants;
  - b. that did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
  - c. which has never received a final effective NPDES permit for dischargers at that site.
- 29. NH3-N means the pollutant parameter ammonia, measured as nitrogen.
- Permit application means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08
  and applicable permit fees.
- Point source means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
- 32. Pollutant includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
- Privately Owned Treatment Works means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
- 34. Publicly Owned Treatment Works means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
- 35. Receiving Stream means the "waters" receiving a "discharge" from a "point source".
- 36. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- 37. Significant Source means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
- 38. Solvent means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.
- 39. TKN means the pollutant parameter Total Kjeldahl Nitrogen.
- 40. TON means the pollutant parameter Total Organic Nitrogen.
- 41. TRC means Total Residual Chlorine.
- 42. TSS means the pollutant parameter Total Suspended Solids.
- 43. 24HC means 24-hour composite sample, including any of the following:
  - a. the mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
  - b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
  - c. a sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to
- 44. Upset means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

- Waters means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
- 46. Week means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
- Weekly (7-day and calendar week) Average is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

# I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

# PART IV ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

# A. BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS

#### BMP Plan

The permittee shall develop and implement a Best Management Practices (BMP) Plan which prevents, or minimizes the potential for, the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

#### Plan Content

The permittee shall prepare and implement a best management practices (BMP) plan, which shall:

- a. Establish specific objectives for the control of pollutants:
  - (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
  - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g. precipitation), or circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- b. Establish specific best management practices to meet the objectives identified under paragraph a. of this section, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented;
- c. Establish a program to identify and repair leaking equipment items and damaged containment structures, which may contribute to contaminated stormwater runoff. This program must include regular visual inspections of equipment, containment structures and of the facility in general to ensure that the BMP is continually implemented and effective;
- d. Prevent the spillage or loss of fluids, oil, grease, gasoline, etc. from vehicle and equipment maintenance activities and thereby prevent the contamination of stormwater from these substances;
- e. Prevent or minimize stormwater contact with material stored on site;
- Designate by position or name the person or persons responsible for the day to day implementation of the BMP;
- g. Provide for routine inspections, on days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general to ensure that the BMP is continually implemented and effective;
- Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;
- i. Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;
- j. Provide for the disposal of all used oils, hydraulic fluids, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;
- k. Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;

- Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
- m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. The containment system shall also be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;
- n. Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;
- o. Be reviewed by plant engineering staff and the plant manager; and
- p. Bear the signature of the plant manager.

#### 3. Compliance Schedule

The permittee shall have reviewed (and revised if necessary) and fully implemented the BMP plan as soon as practicable but no later than six months after the effective date of this permit.

#### Department Review

- When requested by the Director or his designee, the permittee shall make the BMP available for Department review.
- b. The Director or his designee may notify the permittee at any time that the BMP is deficient and require correction of the deficiency.
- c. The permittee shall correct any BMP deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

#### 5. Administrative Procedures

- A copy of the BMP shall be maintained at the facility and shall be available for inspection by representatives of the Department.
- b. A log of the routine inspection required above shall be maintained at the facility and shall be available for inspection by representatives of the Department. The log shall contain records of all inspections performed for the last three years and each entry shall be signed by the person performing the inspection.
- c. The permittee shall provide training for any personnel required to implement the BMP and shall retain documentation of such training at the facility. This documentation shall be available for inspection by representatives of the Department. Training shall be performed prior to the date that implementation of the BMP is required.
- d. BMP Plan Modification. The permittee shall amend the BMP plan whenever there is a change in the facility or change in operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
- e. BMP Plan Review. The permittee shall complete a review and evaluation of the BMP plan at least once every three years from the date of preparation of the BMP plan. Documentation of the BMP Plan review and evaluation shall be signed and dated by the Plant Manager.

# B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

#### 1. Stormwater Flow Measurement

- a. All stormwater samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches.
- b. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must

- be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.
- c. The volume may be measured using flow measuring devices, or estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a stormwater outfall, and an estimate of the runoff coefficient of the drainage area. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

# 2. Stormwater Sampling

- a. A grab sample, if required by this permit, shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable); and a flow-weighted composite sample, if required by this permit, shall be taken for the entire event or for the first three hours of the event.
- b. All test procedures will be in accordance with part I.B. of this permit.

#### ADEM PERMIT RATIONALE

PREPARED DATE: December 18, 2020 PREPARED BY: Scott Jackson

Permittee Name: G2O Technologies, LLC

Facility Name: G2O Technologies LLC

Permit Number: AL0077186

PERMIT IS REISSUANCE DUE TO EXPIRATION

#### DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:

DSN001 & DSN002: Stormwater from non-process areas associated with alum manufacturing.

INDUSTRIAL CATEGORY: NON-CATEGORICAL

MAJOR: N

# STREAM INFORMATION:

Receiving Stream: Unnamed Tributary to Coosa River

Classification: Fish & Wildlife

 River Basin:
 Coosa

 7Q10:
 0.0 cfs

 303(d) List:
 NO\*

 Impairment:
 N/A

TMDL: NO\*

\* - See below discussion regarding 303(d) List and TMDL

# DISCUSSION:

The facility produces liquid aluminum sulfate. The two principal raw materials used are aluminum trihydrate and sulfuric acid. Both raw materials are delivered via bulk railcars and are off-loaded to storage tanks inside containment areas. The sulfuric acid is added to water inside a brick lined digester to begin the reaction. The aluminum trihydrate is fed slowly over time to produce the aluminum sulfate. The product is then transferred to a settling tank and filtered into storage tanks for shipping. The product in storage is then filtered again into a designated truck and sold to customers.

The facility has bulk storage tanks that come in contact with rainwater. These tanks are located near the western boundary of the facility and contain aluminum sulfate (alum), aluminum trihydrate, and sulfuric acid. All tanks have secondary containment and sump pumps. The dumper and truck loading areas contain berms that funnels runoff into the storage tank secondary containment area. The parking and traffic areas on the western side of the plant is diverted to a stormwater collection basin equipped with sump pumps. Accumulated stormwater is diverted to a drainage ditch that traverses the southern boundary and discharges to Outfalls DSN001 and DSN002. This permit authorizes the discharge of stormwater only.

ADEM Administrative Rule 335-6-10-.12 requires applicants to new or expanded discharges to Tier II waters demonstrate that the proposed discharge is necessary for important economic or social development in the area in

which the waters are located. The application submitted by the facility is not for a new or expanded discharge. Therefore, the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

EPA has not promulgated specific guidelines for the discharges covered under the proposed permit. Proposed permit limits are based on Best Professional Judgment. The proposed frequencies are based on a review of site specific conditions and an evaluation of similar facilities.

001S: Stormwater from non-process areas associated with alum manufacturing.

Parameter_	Monthly Avg Loading	<u>Daily Max</u> <u>Loading</u>	<u>Daily Min</u> <u>Concentration</u>	Monthly Avg Concentration	<u>Daily Max</u> <u>Concentration</u>	Sample Frequency	Sample Type	Basis*
pH	-	_	REPORT S.U.	‡	REPORT S.U.	Semi-Annually	Grab	BPJ
Solids, Total Suspended		_	-	=	REPORT mg/l	Semi-Annually	Grab	ВРЈ
Oil & Grease	_	_	-	-	15 mg/l	Semi-Annually	Grab	ВРЈ
Nitrogen, Ammonia Total (As N)	-	-	- Annichem		REPORT mg/l	Semi-Annually	Grab	ВРЈ
Phosphorus, Total (As P)	- Aug	# 1764 - Mark -	-		REPORT mg/l	Semi-Annually	Grab	BPJ
Aluminum, Total Recoverable	-	_	-	_	REPORT mg/l	Semi-Annually	Grab	ВРЈ
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	; ;		•	Semi-Annually	Estimate	ВРЈ

002S: Stormwater from non-process areas associated with alum manufacturing.

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	<u>Daily Max</u> <u>Concentration</u>	Sample Frequency	Sample Type	Basis*
pH	_	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	BPJ
Solids, Total Suspended	-	-	***	=	REPORT mg/l	Semi-Annually	Grab	BPJ
Oil & Grease	-	_	-		15 mg/l	Semi-Annually	Grab	ВРЈ
Nitrogen, Ammonia Total (As N)	-	-	-		REPORT mg/l	Semi-Annually	Grab	ВРЈ
Phosphorus, Total (As P)	_	_	-	:	REPORT mg/l	Semi-Annually	Grab	ВРЈ
Aluminum, Total Recoverable	_	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-		Semi-Annually	Estimate	ВРЈ

# \*Basis for Permit Limitation

- BPJ Best Professional Judgment
- WQBEL Water Quality Based Effluent Limits
- EGL Federal Effluent Guideline Limitations
- 303(d) 303(d) List of Impaired Waters
- TMDL Total Maximum Daily Load Requirements

# Discussion

# Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in EPA form 2F and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The parameters with specific limits are discussed below:

# pН

pH monitoring is proposed to continue with no limitations and will help to detect any problems with storm water runoff with the materials stored onsite.

#### Oil & Grease

Oil & Grease monitoring is being proposed in this permit issuance. The daily maximum limit of 15 mg/l for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs.

#### Total Suspended Solids (TSS) and Total Recoverable Aluminum

TSS and Aluminum monitoring will be continued in this permit and will measure the effectiveness of the facility's BMPs.

# Ammonia (as Nitrogen) and Total Phosphorus

Ammonia (as N) and Phosphorus monitoring will be continued in this permit to address any potential nutrient concentration concerns in the facility's discharge. The information gathered in the facility's monitoring will be useful in determining future permit limitations, if necessary.

# 303(d) List of Impaired Waters/Total Maximum Daily Load (TMDL)

The unnamed tributary to the Coosa River is not listed as being impaired on the 303(d) List nor have there been any developed/finalized TMDL's associated with it. However, the portion of the Coosa River that is the facility's ultimate discharge point into the river is on the 303(d) List of Impaired Waters for PCBs (priority organics) and metals (Mercury). The sources for these impairments are from contaminated sediments and atmospheric deposition, respectively. In addition, there is an established TMDL for this portion for Nutrients and Organic Enrichment/Dissolved Oxygen (OE/DO). The discharge of this facility is not expected to contribute to any of the listed impairments; however, the data collected from the monitoring of TSS, Phosphorus, and Ammonia (as Nitrogen) will show if the facility is potentially contributing to the impairments and will help determine future permit limitations, if necessary.

# Schedule of Compliance

It is required through the BMP Plan that the facility must update and detail steps to be taken to reduce levels of Aluminum in the stormwater discharges from the site. The requirement for an updated BMP Plan is proposed in the Schedule of Compliance in Part I.E.1 of the permit.

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of stormwater from areas of industrial activities. This facility is required to maintain a BMP plan. The requirements of the BMP plan call for minimization of stormwater contact with waste materials, products and by-products, and for prevention of spills or loss of fluids from equipment maintenance activities. It is also required through the BMP Plan that the facility must update and detail steps to be taken to reduce levels of Aluminum in the stormwater discharges from the site. The effectiveness of the BMPs will be measured through the monitoring of the pollutants of concern.

# NPDES & SID Fee Sheet Municipal, Industrial and Mining

Master ID No: 0000028822

Base Application	Rcissuance (effluent (injection	ial Issuance or Modification limit change) zone change atibility study)	Modification (No effluent limit change) (No injection zone change or no compatibility study)	Fec Total	Applicant: G2O Technologies, LLC Contact: Joseph R Dennis Mailing Address: 16693 Plant Road Childersburg, AL 35044 County: Talladega Facility: G2O Technologies, LLC - Coosa Pi	<u>nes</u>
Action Type: Reissua Payment Type: Wate		ndustrial Minor Fee		\$5615.00	Location: 16693 Plant Road Facility City: Childersburg Facility/Permit No: AL0077186 Application Receive Date: October 2, 2020	
Major Industrial Disch Minor Industrial Disch Commercial/Industrial Major Municipal & Pr Minor Municipal & Pr & Water Treatment Municipal Storm Water Minor NPDES Modified SID SID with EPA establish Categorical Effluent of Name Change/Transfe Mineral/Resource Extra	narger l General ivate ivate er (MS-4) cation shed Guidelines er	\$17,990 \$5,615 \$1,385 \$7,060 \$4,290 \$7,060  \$3,850 \$4,375 \$ 800 \$5,820	\$3,940 \$3,120 \$800 \$3,140 \$2,250 \$3,275 \$ 800 \$2,125 \$2,520		ADDITIVE FEES: Modeling with Data Collection (10 Stations) Modeling with Data Collection (5 Stations) Modeling - Desktop Review of Model Performed by Others Seasonal Limits (per additional Season) Biomonitoring & Toxicity Limits 316b Phase I, II, & III Facilities (Permit Issuance/Re-Issuance Modification) Review Comp Demo Study [(316b Phase I (Track 2) & Phase II (Alt 2, 3, 4, 5)] Public Hearing Green Field Fee	\$60,390 \$49,315 \$ 4,855 \$ 2,705 \$ 4,855 \$ 1,015 \$ 5,065 \$40,525 \$ 8,450 \$ 1,610
Mining, Storage Tran Dry Processing Wet Preparation, Proce Beneficiation Coalbed Methane	essing,	\$6,860 \$6,860	\$3,940 \$3,940		Entered to Permit Tracking:  By:  Total Fee Due: \$5615.00  Amount Submitted with Appl: \$5615.00  Amount to be Billed: \$0.00  Date and Amt Received:  Amount to be Refunded: \$  Prepared by: Scott Jackson  Reviewed by:	

# By E-MAIL & CERTIFIED MAIL - Return receipt requested

September 28, 2020

Mr. Scott Ramsey, Chief Alabama Department of Environmental Management Permits and Services Division Post Office Box 301463 Montgomery, AL 36130-1463

Re: Renewal Application; NPDES Permit No. AL0077186 G2O Technologies, LLC

Dear Mr. Ramsey:

This letter along with the accompanying attachments, constitutes G2O Technologies' (G2O) renewal application for our NPDES Permit No. AL0077186. The following attachments are included as required:

R#21-52 671

- 1. Completed ADEM Form 187
- 2. Information Supporting G2O's application
- 3. Completed EPA Form 3510-1 w/ topographic map
- 4. Completed EPA Form 3510-2F w/ site drainage mag and analytical results
- Check #3185928 in the amount of \$5,615.00

If you need additional information or have questions please call me at (256) 510-4813 or email me at joe.dennis@geosc.com. I appreciate your assistance with this matter.

Best regards,

Joe Dérinis

Director, Environmental Health & Safety

Cc: Scott Jackson - ADEM

# ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)

	ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)  NPDES INDIVIDUAL PERMIT APPLICATION  SUPPLEMENTARY INFORMATION FOR INDUSTRIAL FACILITIES							
The Plea	Instructions: This form should be used to submit the required supplementary information for an application for an NPDES individual permit for industrial facilities.  The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper.  Please mark "N/A" in the appropriate box when an item is not applicable to the applicant. Please type or print legibly in blue or black into Mail-the completed 1							
аррі	ADEM-Water Division Industrial Section P O Box 301463 Montgomery, AL 36130-1463							
	PURPOSE OF THIS APPLICATION TIND / WON BRANCH							
	Initial Permit Application for New Facility*  Modification of Existing Permit  Revocation & Reissuance of Existing Permit  * An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.							
SE	CTION A - GENERAL INFORMATION							
1.	Facility Name: G20 Technologies, LLC							
2.	NPDES Permit Number: AL_0077186 (not applicable if initial permit application)							
3.	SID Permit Number (if applicable): IUN/A							
4.	NPDES General Permit Number (if applicable): ALGN/A							
5.	Facility Location (Front Gate): Latitude: 33.331902 Longitude: -86.359117							
7.	Responsible Official (as described on the last page of this application):							
	Name: Joseph R. Dennis Title: Plant Manager							
	Address: 16693 Plant Road							
	City: Childersburg State: AL Zip: 35044							
	Phone Number: 256-378-5556 Email Address: joe.dennis@geosc.com							
8.	Designated Discharge Monitoring Report (DMR) Contact:							
	Name: Joseph R. Dennis Title: Plant Manager							
	Phone Number: 256-378-5556 Email Address: joe.dennis@geosc.com							
9.	Type of Business Entity:							
	☐ Corporation ☐ General Partnership ☐ Limited Partnership ☒ Limited Liability Company ☐ Sole Proprietorship ☐ Other (Please Specify)							
10.	Complete this section if the Applicant's business entity is a Corporation							
	a) Location of Incorporation:							
	Address: N/A							
	City:County:State:Zip:							
	b) Parent Corporation of Applicant:							
	Name; N/A							
	Address:							
	City:							

	c) Subsidiary Corporation(s) of App	licant		
	Name: N/A			
	Address:			
	City:	State	:	Zip:
	d) Corporate Officers:			
	Name: See attached			
	Address:			
	City:	State	:	Zip:
	Name:	<del></del>		
	Address:	-		
	City:	State	:	_Zip:
	e) Agent designated by the corpora	tion for purposes of sen	<u>rice</u> :	
	Name: N/A			
	Address:			
	City:	State	:	
11.	If the Applicant's business entity is a	Partnership, please list t	he general partners.	
	Name: N/A		Name:	
	Address:		Address:	
	City:State:	Zip:	City:Sta	ate:Zip;
12.	If the Applicant's business entity is a	Proprietorship, please e	nter the proprietor's information.	
	Name: N/A			
	Address:			
	City:	State	:	Zip:
15.	Identify all Administrative Complaints if any, against the Applicant, its pare (attach additional sheets if necessary	nt corporation or subsidi	rectives, Administrative Orders, or Lit iary corporations within the State of A	igation concerning water pollution Alabama within the past five year
	Facility Name	Permit Number	Type of Action	Date of Action
	GEO Specialty Chemicals, Inc.	61-15	NOV	01/2015
	GEO Specialty Chemicals, Inc.	61-15	NOV	05/2016
	GEO Specialty Chemicals, Inc.	61-15	NOV	08/2017
	GEO Specialty Chemicals, Inc.	ALG160129	CEI	10/2018
	GEO Specialty Chemicals, Inc.	61-15	Groundwater Assessment Work PI	08/2019

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# SECTION B - BUSINESS ACTIVITY

If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous waste), place a check beside the category of business activity (check all that apply):

	Industrial Categories								
	Aluminum Forming		Metal Molding and Casting						
	Asbestos Manufacturing		Metal Products						
	Battery Manufacturing		Nonferrous Metals Forming						
	Can Making		Nonferrous Metals Manufacturing						
	Canned and Preserved Fruit and Vegetables		Oil and Gas Extraction						
	Canned and Preserved Seafood		Organic Chemicals Manufacturing						
	Cement Manufacturing		Paint and Ink Formulating						
	Centralized Waste Treatment		Paving and Roofing Manufacturing						
	Carbon Black		Pesticides Manufacturing						
	Coal Mining		Petroleum Refining						
	Coil Coating		Phosphate Manufacturing						
	Copper Forming		Photographic						
	Electric and Electronic Components Manufacturing		Pharmaceutical						
	Electroplating		Plastic & Synthetic Materials						
	Explosives Manufacturing		Plastics Processing Manufacturing						
	Feedlots		Porcelain Enamel						
	Ferroalloy Manufacturing		Pulp, Paper, and Fiberboard Manufacturing						
	Fertilizer Manufacturing		Rubber						
	Foundries (Metal Molding and Casting)		Soap and Detergent Manufacturing						
	Glass Manufacturing		Steam and Electric						
	Grain Mills		Sugar Processing						
	Gum and Wood Chemicals Manufacturing		Textile Mills						
$\boxtimes$	Inorganic Chemicals		Timber Products						
	Iron and Steel		Transportation Equipment Cleaning						
	Leather Tanning and Finishing		Waste Combustion						
	Metal Finishing		Other (specify)						
	Meat Products								
A facility v These fac	with processes inclusive in these business areas may illities are termed "categorical users".	be co	vered by Environmental Protection (EPA) categorical standards.						
SECTION	C - WASTEWATER DISCHARGE INFORMATION								
4	The state of the s	7 No	(If no, continue to C.2)						
	you share an outfall with another facility? Yes beach shared outfall, provide the following:	7 140	(II 110, Collable to C.2)						
A	Applicant's Name of Other Permittee/Facility Outfall No.		NPDES Where is sample collected Permit No. by Applicant?						
_									

2.	Do	you have, or plan to	have, automatic	sampling equipment or	continuous	wastewa	ater flow meterin	ng equipment at this facility?	
			Current:	Flow Metering Sampling Equipment Flow Metering Sampling Equipment	Yes	X No X No X No X No	□ N/A □ N/A □ N/A □ N/A		
	if so	o, please attach a so equipment below:	chematic diagran	n of the sewer system in	dicating the	present	or future location	n of this equipment and descri	be
		······································							
3.	Are	any process chang	es or expansion	s planned during the nex	t three year	s that cou	uld aiter wastew	ater volumes or characteristic	s?
	Π,	res 🗵 No (If no	, continue to C.4	)					
	Brie	fly describe these of	changes and the	r anticipated effects on t	the wastewa	ater volun	ne and characte	ristics:	
		•.							
4.	List	the trade name and	d chemical comp	osition of all biocides an	d corrosion	inhibitors	s used:		
			Trade Name				Chemical Compo	osition	
			N/A				N/A		
For	eacl	n biocide and/or cor	rrosion inhibitor (	ised, please include the	following in	formation	1:		
	(2) (3) (4)	96-hour median to ultimately reach, quantities to be us frequencies of use proposed discharg EPA registration n	ed, e, ge concentrations	s, and	ntative of the	e biota of	the waterway in	nto which the discharge will	
SE	СТІС	N D - WATER SUI	PPLY						_
Wa	ter S	ources (check as m	nany as are appli	cable):					
		Private Well				Surfac	e Water		
		Municipal Water U	Itility (Specify Cit	y):		Other (	(Specify):		_
	IF I	MORE THAN ONE	WELL OR SURI	FACE INTAKE, PROVID	E DATA FO	OR EACH	H ON AN ATTA	CHMENT	
	City	:0.05MGD*	Well:	MGD* Well Dep	oth:	Ft.	Latitude:	Longitude:	
	Sur	face Intake Volume	e:MC	SD* Intake Elevati	ion in Relati	on to Bot	ttom:	Ft	
	Inta	ke Elevation:	Ft. La	itude:	Longitude	:			
	Nar	ne of Surface Wate	er Source: <u>Talla</u> de	ga County Water Departme	ent				
	- M	GD – Million Gallo	ns per Day						

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Coolin	g Water Intake Structure Information
Comple	ete D.1 and D.2 if your water supply is provided by an outside source and not by an onsite water intake structure? (e.g.,
anothe	r industry, municipality, etc)
1.	Does the provider of your source water operate a surface water intake?  Ves  No  (If yes, continue, if no, go to Section E.)
	a) Name of Provider: Talladega County Water Department b) Location of Provider. Childersburg
	c) Latitude: Longitude:
	s the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)?   Yes \( \subseteq \text{No (If yes, go to Section E, if no, continue.)} \)
	be completed if you have a cooling water intake structure or the provider of your water supply uses an intake structure es not treat the raw water.
3.	Is any water withdrawn from the source water used for cooling?   Yes   No
4.	Using the average monthly measurements over any 12-month period, approximately what percentage of water withdrawn is used exclusively for cooling purposes?%
5.	Does the cooling water consist of treated effluent that would otherwise be discharged? $\square$ Yes $\square$ No (If yes, go to Section E, if no, complete D.6 – D.17)
6.	a. Is the cooling water used in a once-through cooling system?
	b. Is the cooling water used in a closed cycle cooling system? ☐ Yes ☐ No
7.	When was the intake installed?
8.	What is the maximum intake volume?(maximum pumping capacity in gallons per day)
9.	What is the average intake volume? (average intake pump rate in gallons per day average in any 30-day period)
10	.What is the actual intake flow (AIF) as defined in 40 CFR §125.92(a)?MGD
11	. How is the intake operated? (e.g., continuously, intermittently, batch)
12	.What is the mesh size of the screen on your intake?
13	.What is the intake screen flow-through area?
14	.What is the through-screen design intake flow velocity?ft/sec
15	.What is the through-screen actual velocity (in ft/sec)?ft/sec
16	. What is the mechanism for cleaning the screen? (e.g., does it rotate for cleaning)
17	.Do you have any additional fish detraction technology on your intake? ☐ Yes ☐ No
18	Have there been any studies to determine the impact of the intake on aquatic organisms?   Yes No (If yes, please provide.)
19	Attach a site map showing the location of the water intake in relation to the facility, shoreline, water depth, etc.

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Description of Waste		Description of Storage Location		
Rainwater that falls on the process		On elle sterene teeks		
TION	F - COASTAL ZONE INFORMATION			
	discharge(s) located within the 10-foot elevation contour a complete items F.1 – F.12:	nd within the limits of Mobile or Baldwin County?	] Yes	⊠ No
	Dead the mariest require new construction?		<u>Yes</u>	<u>№</u>
1.	Does the project require new construction?		_	占
2. 3.	Does the project involve dredging and/or filling of a wetland		_	
3.	If Yes, has the Corps of Engineers (COE) permit been reco		_	
4.	Does the project involve wetlands and/or submersed grass	sbeds?		П
5.	Are oyster reefs located near the project site?			
	If Yes, include a map showing project and discharge locati			
6.	Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-102(bb)?			
7.	Does the project involve mitigation of shoreline or coastal area erosion?			
8.	Does the project involve construction on beaches or dune			
9.	Will the project interfere with public access to coastal water	rs?		
	Does the project lie within the 100-year floodplain?			
11.	Does the project involve the registration, sale, use, or appl	lication of pesticides?		
12.	Does the project propose or require construction of a new pump more than 50 gallons per day (GPD)?			
	If yes, has the applicable permit for groundwater recovery obtained?			
				n mu
vided,	if applicable. It is the applicant's responsibility to demonstr commation is required to make this demonstration, attach add	rate the social and economic importance of the pro	posed	activi
	a new or increased discharge that began after April 3, 199 complete G.2 below. If no, go to Section H.	1? ☐ Yes 🗵 No		
vided, her inf Is this If yes,	if applicable. It is the applicant's responsibility to demonstra- ormation is required to make this demonstration, attach add a new or increased discharge that began after April 3, 199	rate the social and economic inditional sheets to the application?	mportance of the pro n.	mportance of the proposed on.

ADEM Form 187 m6 04/2020 Page 6 of 8

Info	mation required for new or increased discharges to high quality waters:
A.	What environmental or public health problem will the discharger be correcting?
В.	How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?
C.	How much reduction in employment will the discharger be avoiding?
D.	How much additional state or local taxes will the discharger be paying?
E.	What public service to the community will the discharger be providing?
F.	What economic or social benefit will the discharger be providing to the community?
	Landon and a superior

### SECTION H - EPA Application Forms

All Applicants must submit EPA permit application forms. More than one application form may be required from a facility depending on the number and types of discharges or outfalls found. The EPA application forms are found on the Department's website at <a href="http://www.adem.alabama.gov/programs/water/waterforms.cnt">http://www.adem.alabama.gov/programs/water/waterforms.cnt</a>. The EPA application forms must be submitted in duplicate as follows:

- 1. All applicants must submit Form 1.
- Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
- 3. Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
- Applicants for new and existing industrial facilities which discharge only non-process wastewater (i.e., non-contact cooling water and/or sanitary wastewater) must submit Form 2E.
- 5. Applicants for new and existing facilities whose discharge is composed entirely of storm water associated with industrial activity must submit Form 2F, unless exempted by § 122.26(c)(1)(ii). If the discharge is composed of storm water and non-storm water, the applicant must also submit Forms 2C, 2D, and/or 2E, as appropriate (in addition to Form 2F).

### SECTION I - ENGINEERING REPORT/BMP PLAN REQUIREMENTS

CECT	IANI	DE/	SEIVIA	IC VAL	ATERS
SECT	IUN.	- KE	JEIVIN	1G W	AIERS

Outfall No.	Receiving Water(s)	303(d) Segmen	? Included in	n TMDL?*
DSN001S	COOSA RIVER	☐ Yes 🏻	No Yes	No
DSN002S	COOSA RIVER	☐ Yes 🏻	No Yes	No
15177 1 44		☐ Yes ☐	No Yes	□No
The state of the s		☐ Yes ☐	No Yes	□No
ASSESS OF STREET		Yes	No Yes	□No

\*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

- (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);
- (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);
- (3) Requested interim limitations, if applicable;
- (4) Date of final compliance with the TMDL limitations; and,
- (5) Any other additional information available to support requested compliance schedule.

#### SECTION K - APPLICATION CERTIFICATION

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible Official:		Date Signed: 09/25/2020
Name: Joseph R. Dennis	Title: Plant Manager	
//0		
If the Responsible Official signing this app	lication is <u>not</u> identified in Section A.7, provide the fol	lowing information:
If the Responsible Official signing this appointment of the Responsible Official signing the Responsible Official signing the Responsible Official signing the Responsible Official signing the Responsible Official significant of the Responsibility	lication is <u>not</u> identified in Section A.7, provide the fol	lowing information:

Email Address: joe.dennis@geosc.com

#### 335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
  - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
  - (b) In the case of a partnership, by a general partner;
  - (c) In the case of a sole proprietorship, by the proprietor; or
  - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

ADEM Form 187 m6 04/2020

Phone Number: 256-378-5556

# Information supporting G2O Technologies, LLC's NPDES (#AL0077186) Permit renewal application

### 10d.) Company Officers

### President

Mr. Jeff Roberts G2O Technologies 2 Main Street Clinton, NJ 08809

Vice President, Finance & Administration

Mr. Lewis Hughes G2O Technologies 183 Gulbrandsen Road Orangeburg, SC 29115

Vice President, Manufacturing

Mr. Derek Linder G2O Technologies 2819 Pointe-Marie Drive Baton Rouge, La 70820

Director, Environmental Health & Safety

Mr. Joseph R. Dennis G2O Technologies 16693 Plant Road Childersburg, AL 35044

### Section I — Engineering Report/BMP Plan Requirements

The plant's primary sources of possible spillage are the three alum storage tanks that hold a total of 150,000 gallons. The alum tanks are inside an impoundment area with a volume of approximately 50,000 gallons. The largest tank in this impoundment area is 61,000 gallons. Spillage in this area would flow through drains into a sump pump where it would be pumped to tank 12 with a capacity of approximately 100,000 gallons. Tank 12 is valved to be able to feed the material back into the process. Tank 12 also sits inside of a containment area that can be collected and transferred back into the process.

**EPA Identification Number** NPDES Permit Number Facility Name Form Approved 03/05/19 OMB No. 2040-0004 G2O Technologies AL0077186 U.S. Environmental Protection Agency Form **Application for NPDES Permit to Discharge Wastewater SEPA NPDES** GENERAL INFORMATION 1.1 Applicants Not Required to Submit Form 1 Is the facility a new or existing publicly owned Is the facility a new or existing treatment works 1.1.1 1.1.2 treatment works? treating domestic sewage? If yes, STOP. Do NOT complete If yes, STOP, Do NOT No No V v Form 1. Complete Form 2A. complete Form 1. Complete Form 2S. 1.2 Applicants Required to Submit Form 1 1.2.1 Is the facility a concentrated animal feeding 1.2.2 Is the facility an existing manufacturing, Activities Requiring an NPDES Permit operation or a concentrated aquatic animal commercial, mining, or silvicultural facility that is production facility? currently discharging process wastewater? Yes → Complete Form Yes → Complete Form 1 v ₽ No and Form 2B. 1 and Form 2C. Is the facility a new or existing manufacturing. 1.2.3 Is the facility a new manufacturing, commercial. 1.2.4 commercial, mining, or silvicultural facility that mining, or silvicultural facility that has not yet commenced to discharge? discharges only nonprocess wastewater? Yes → Complete Form 1 Yes → Complete Form ₽ No П V and Form 2D. 1 and Form 2E. 1.2.5 Is the facility a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity or whose discharge is composed of both stormwater and non-stormwater? Yes → Complete Form 1 No and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15)**Facility Name** 2.1 G2O Technologies, LLC Name, Mailing Address, and Location 2.2 **EPA Identification Number** 2.3 **Facility Contact** Name (first and last) Tille Phone number (256) 378-5556 Joseph R. Dennis Plant Manager Email address joe.dennis@geosc.com 2.4 **Facility Mailing Address** Street or P.O. box 16693 Plant Road State ZIP code City or town Childersburg ΑL

OCT 0 2 2020

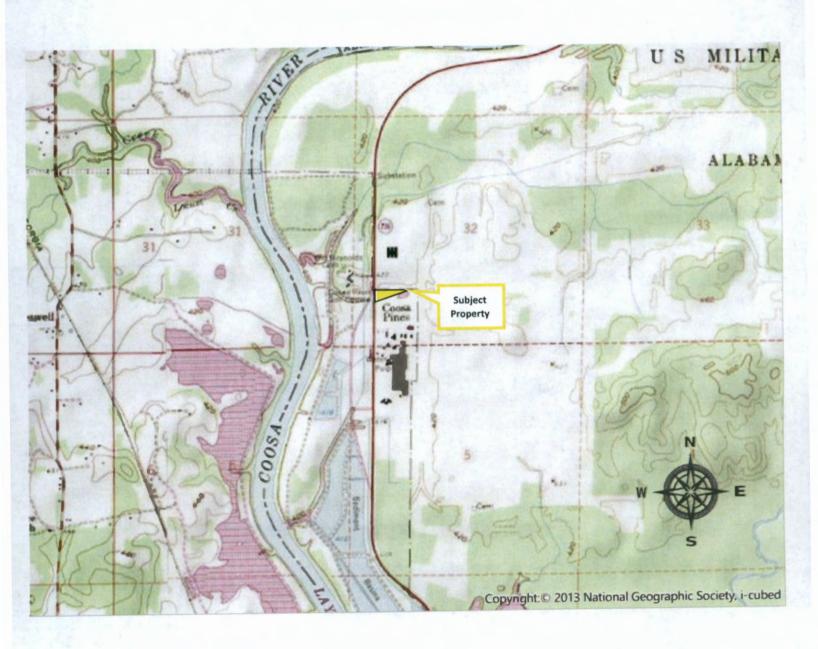
EPA Identification Number		NPDES	S Permit Number Facility Na		Form Approved 03/05/19 OMB No. 2040-0004		
			AL	.0077186	G2O Technologies	OMB No. 2040-0004	
s,	2.5	Facility Locati	lon				
Name, Mailing Address, and Location Continued			umber, or othe	er specific identifier 235			
Mailing cation (		County name Talladega		County code (i	f known)		
, j		City or town		State		ZIP code	
Nat and		Childersburg		AL		35044	
SECTIO	N 3. SIC	AND NAICS CO	DES (40 CFF	R 122.21(f)(3))			
	3.1		Code(s)	Description (	optional)	· · · · · · · · · · · · · · · · · · ·	
		2819		Industrial Inorg	·		
Sic and NAICS Codes							
S)							
NA.	3.2	NAICS	Code(s)	Description (	optional)		
and		32518			rganic Chemicals		
SIC							
			RMATION (40	CFR 122.21(f)(4))		1	
SEÇTIO	N 4. OPI	ERATOR INFOR		0, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
SEÇTIO	N 4. OPI 4.1	Name of Oper					
	4.1	Name of Oper	rator gies, LLC				
		Name of Oper	rator gies, LLC	m 4.1 also the owner	?		
	4.1	G2O Technolog	rator gies, LLC		?		
	4.1	Name of Operator State	rator gies, LLC pu listed in Iter No tus	m 4.1 also the owner			
	4.1	Name of Operator State  Name of Operator State  Name of Operator State  Name of Operator State  Public—fe	rator gies, LLC pu listed in Iter No tus	m 4.1 also the owner	□ Oti	ner public (specify)	
Operator Information CD	4.2	Name of Oper G2O Technolog Is the name you Yes Operator Stat Public—fe	rator gies, LLC ou listed in Iter No tus ederal	n 4.1 also the owner  Public—state Other (specify)	□ Oti	ner public (specify)	
	4.1	Name of Operator State  Public—fe Phone Numb	rator gies, LLC ou listed in Iter No tus ederal	n 4.1 also the owner  Public—state Other (specify)	□ Oti	ner public (specify)	
	4.2	Name of Oper G2O Technolog Is the name you Yes Operator Stat Public—fe	rator gies, LLC ou listed in Iter No tus ederal	n 4.1 also the owner  Public—state Other (specify)	□ Oti	ner public (specify)	
Operator Information	4.2	Name of Operator State  Public—fe Phone Numb (256) 378-5556  Operator Add  Operator Add	rator gies, LLC pu listed in Iter No tus ederal er of Operato f	n 4.1 also the owner  Public—state Other (specify)	□ Oti	ner public (specify)	
Operator Information	4.1	Name of Operator State  Public—fe Private Phone Numb (256) 378-5556 Operator Add Street or P.O.	rator gies, LLC ou listed in Iter No tus ederal er of Operato dress Box	n 4.1 also the owner  Public—state Other (specify)	□ Oti	ner public (specify)	
Operator Information	4.1	Name of Operator State  Public—fe Phone Numb (256) 378-5556  Operator Add  Operator Add	rator gies, LLC ou listed in Iter No tus ederal er of Operato dress Box	m 4.1 also the owner  ☐ Public—state ☐ Other (specify)	□ Oti		
Operator Information	4.1	Name of Operator State  Public—fe Phone Numb (256) 378-5556 Operator Ado Street or P.O. 16693 Plant Ro City or town	rator gies, LLC ou listed in Iter No tus ederal er of Operato dress Box	m 4.1 also the owner  ☐ Public—state ☐ Other (specify) or	□ Oti	Z!P code	
Operator Information	4.1	Name of Oper G2O Technolog Is the name you Yes Operator Stat Public—fe Private Phone Numb (256) 378-5556 Operator Add Street or P.O. 16693 Plant Ro City or town Childersburg	rator gies, LLC ou listed in Iter No tus ederal er of Operato f dress Box oad	m 4.1 also the owner  ☐ Public—state ☐ Other (specify)	□ Oti		
Operator Information	4.1	Name of Oper G2O Technolog Is the name you Yes Operator Stat Public—fe Private Phone Numb (256) 378-5556 Operator Add Street or P.O. 16693 Plant Ro City or town Childersburg Email address	rator gies, LLC ou listed in Iter No tus ederal er of Operato dress Box boad	m 4.1 also the owner  ☐ Public—state ☐ Other (specify) or	□ Oti	Z!P code	
ation Operator Information	4.1	Name of Oper G2O Technolog Is the name you Yes Operator Stat Public—fe Private Phone Numb (256) 378-5556 Operator Add Street or P.O. 16693 Plant Ro City or town Childersburg	rator gies, LLC ou listed in Iter No tus ederal er of Operato dress Box boad	m 4.1 also the owner  ☐ Public—state ☐ Other (specify) or	□ Oti	Z!P code	
Operator Information Continued	4.1	Name of Oper G2O Technolog Is the name you Yes Operator Stat Public—fe Private Phone Numb (256) 378-5556 Operator Add Street or P.O. 16693 Plant Ro City or town Childersburg Email address	rator gies, LLC ou listed in Iter No tus ederal er of Operato firess Box boad s of operator eosc.com	m 4.1 also the owner  ☐ Public—state ☐ Other (specify) or	□ Oti	Z!P code	
Operator Information Continued	4.1	Name of Oper G2O Technolog Is the name you Yes Operator Stat Public—fe Private Phone Numb (256) 378-5556 Operator Add Street or P.O. 16693 Plant Ro City or town Childersburg Email address joe.dennis@ge	rator gies, LLC ou listed in Iter No tus ederal er of Operato dress Box boad s of operator eosc.com CFR 122.21(f	The state of the owner of the state of the s	□ Oti	Z!P code	

EPA Form 3510-1 (revised 3-19) Page 2

EPA Identification Number			NPDES Permit N	NPDES Permit Number Facility Name		Form Approved 03/05/19			
			AL007718	5		G2O Technologies	OMB No. 2040-0004		
SECTIO	N 6. EXIS	STING ENVIRON	MENTAL PERMITS	(40 CFR 122	.21(f)(6	))			
	6.1	Existing Envir	onmental Permits (c	heck all that a	apply a	nd print or type the cor	responding permit number for each)		
ente		NPDES (di	scharges to surface	RCRA	(hazard	ous wastes)	UIC (underground injection of		
ma .		water)			(		fluids)		
viro		AL007718	6						
교교	AL0077186  PSD (air emissions)  Nonattainment program (CAA)						☐ NESHAPs (CAA)		
Existing Environmental Permits					-				
ă		☐ Ocean dur	nping (MPRSA)	☐ Dredge	or fill (	CWA Section 404)	Other (specify)		
' CECTIO	61 T REAT		4/8/71)			, , , , , , , , , , , , , , , , , , ,	61-15 Solid Waste/ALG160129		
SECTIO		(40 CFR 122.2							
ا ۾ ا	7.1			p containing	all requ	ired information to this	application? (See instructions for		
Мар		specific require							
•		☑ Yes □	No CAFO—No	t Applicable (	See re	quirements in Form 2B	<i>.</i> .)		
SECTIO	N 8. NAT	URE OF BUSIN	ESS (40 CFR 122.21	(f)(8))					
-	8.1		ature of your business		-				
							used are aluminum trihydrate and		
SS							to storage tanks inside containment		
Nature of Business		areas. The sulfuric acid is added to water inside a brick lined digester to begin the reaction. The aluminum trihydrate is fed slowly over time to produce the aluminum sulfate. The product is them transferred to a set tank and then filtered into storage tanks for shipping. The product in the storage is then filtered again into a							
Bus									
e of		dedicated truci	cand sold to municipa	al water treat	ment p	lants and paper mills.			
stur									
ž									
	'								
SECTIO			NTAKE STRUCTURI	•	22,21(	)(9))			
	9.1	Does your facil	ity use cooling water?	1					
L S		☐ Yes 🕝	No → SKIP to Item	10.1.					
oling Water e Structures	9.2						intake structure as described at		
P							40 CFR 122.21(r). Consult with your		
		NPDE2 permit	ung aumonty to deten	mine what sp	ecitic in	formation needs to be	submitted and when.)		
Coc									
SECTIO	N-10. VA	RIANGE REQU	ESTS (40 CFR 122.2	i(f)(10))					
	10.1	VARIANCE REQUEST\$ (40 CFR 122.21(f)(10))  Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)?							
, o		apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and							
lest		when.)	hen.)						
leq1			entally different facto	rs (CWA			effluent limitations (CWA Section		
Ge F		Section	` ''		_	302(b)(2))	20111 0 11 040/ h		
Variance Requests			nventional pollutants (	CWA		i nermai discharges (	(CWA Section 316(a))		
A		l	301(c) and (g))				•		
		✓ Not app	licable						

EPA Form 3510-1 (revised 3-19) Page 3

EF	EPA Identification Number		NPDES Permit Number AL0077186		cility Name echnologies	Form Approved 03/05/19 OMB No. 2040-0004			
SECTIO	N 11. CH	ECKLIS	ST AND CERTIFICATION STATEMENT (40 CFR	22.22(	a) and (d))				
	11.1	In Cole	umn 1 below, mark the sections of Form 1 that you	have co	ave completed and are submitting with your application. It you are enclosing to alert the permitting authority. Note				
			Column 1		Column 2				
	-		Section 1: Activities Requiring an NPDES Permit		w/ attachments				
		V	Section 2: Name, Mailing Address, and Location		w/ attachments				
		Ø.	Section 3: SIC Codes		w/ attachments				
		V	Section 4: Operator Information		w/ attachments				
		V	Section 5: Indian Land		w/ attachments				
Ħ		V	Section 6: Existing Environmental Permits		w/ attachments				
Checklist and Certification Statement		V	Section 7: Map	v	w/ topographic map	w/ additional attachments			
ion St		V	Section 8: Nature of Business		w/ attachments				
tificat		V	Section 9: Cooling Water Intake Structures		w/ attachments	PERMIT AND			
d Cer		v	Section 10: Variance Requests		w/ attachments				
list an		V	Section 11: Checklist and Certification Statemen	t 🗆	w/ attachments				
Jeck	11.2	Certif	Certification Statement						
3		in acc inform directi belief,	fy under penalty of law that this document and all a ordance with a system designed to assure that qua- nation submitted. Based on my inquiry of the persor ly responsible for gathering the information, the info- true, accurate, and complete. I am aware that ther ling the possibility of fine and imprisonment for known	lified per or personation re are si	ersonnel properly gati sons who manage the a submitted is, to the l ignificant penalties for	her and evaluate the e system, or those persons best of my knowledge and			
			(print or type first and last name) n.R. Dennis		cial title t Manager				
		Signa	ture	Date	e signed 09/25/202	LØ			



EPA Identification Number NPDES Permit Number Facili AL0077186 G2O Ter

Facility Name G2O Technologies Form Approved 03/05/19 OMB No. 2040-0004

Form 2F NPDES



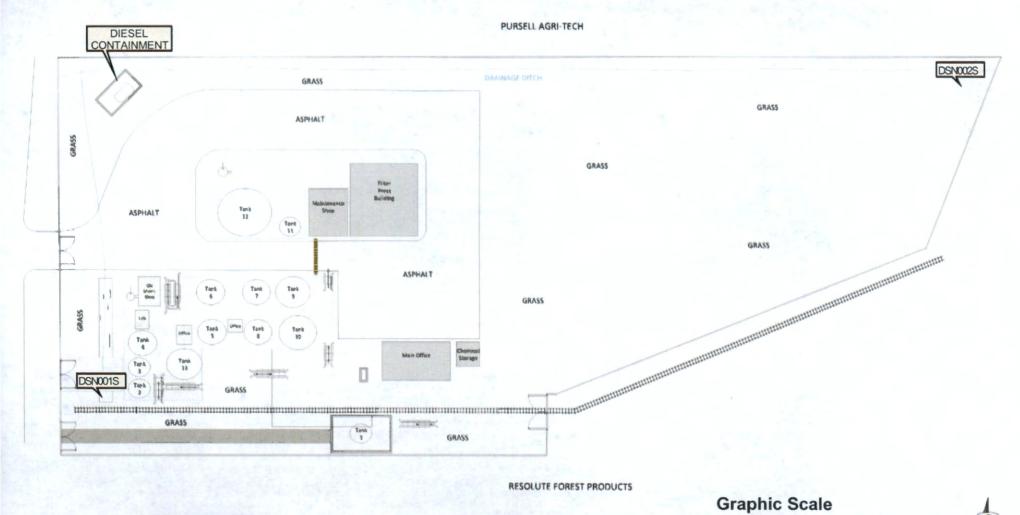
### U.S Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater

NPDES		STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY							γ			
			• !	;								
	1.1	Provide info	ormation on each of the	facility's outfalls in '	he table	below						
		Outfall Number	Receiving Water Na	me	Latitude				Longitude			
_		DSN001S	Coosa River	33°	19	49" N	86°	21' 32	" W			
DSN002S Coosa River 33° 19′ 52″ N  . , , , , , , , , , , , , , , , , , ,							86°	21' 21	." W			
fall Lö				۰	,	"	۰	,	"			
o ta				0	,	H	۰	,	"			
				•	,	n	•	, 	n			
				۰	,	"	۰	,	v			
			<i>I*</i>									
	2.1	upgrading,	esently required by any f or operating wastewater ischarges described in t	r treatment equipm								
		☐ Yes				No → S	KIP to Section	3.				
	2.2	Briefly iden	Briefly identify each applicable project in the table below.									
			Identification and	Affected Outfalls		Source(s) of D	icchama	Final Compliance Dates				
		Desc	ription of Project	(list outfall numbers)		Codice(a) of D	Required	Projected				
<u> </u>												
χį												
ement												
Improvements												
					-		<del></del>					
					<del>                                     </del>							
	2.3	Have you a	attached sheets describi	ng any additional w	ater poll	ution control pro	grams (or other	environmenta	al projects			
		□ Yes			loerway lo	or biginied: (Ot	aonai nomy					
	l	L	<del>-1                                       </del>	<del>/117( -1!//! </del>								

EPA K	tentication	Number	NPDES Permit Number Facility Name AL0077186 G2O Technologies				roved 03/05/19 No. 2040-0004
SECTION	I 3. SITE	DRAINAGE	MAP (40 CFR 122.26(c)(1)(i)	(A))			
Site Drainage Map	3.1	Ī	ttached a site drainage map co	· · · · · · · · · · · · · · · · · · ·	formation to this appli	ication? (See Instruction	ons for
0, 5		☑ Yes		□ No ·			·
SECTION	l 4. POLI	LUTANT SO	JRCES (40 CFR 122.26(c)(1)	(i)(B))			
	4.1	Provide info	rmation on the facility's polluta	ant sources in the table	below.		
		Outfall Number	Impervious Suri (within a mile radius	of the facility)		urface Area Drained mile radius of the facility)	
		DSN001S	1.4	specify units acres	1.9		specify units acres
		DSN002S	0.0	specify units	3.01		specify units
				specify units		-	specify units
				specify units			specify units
	ï			Spoury anna			Specif unio
				specify units			specify units
				specify units			specify units
4.2 Provide a narrative description of the facility's significant material in the space below. (See instruct requirements.)  The plant has bulk storage tanks that come in contact with rainwater. These tanks are located boundary of the facility. The bulk storage tanks contain aluminum sulfate (alum), aluminum tribacid. All tanks have secondary containment and sump pumps. The dumpster and truck loading a that funnels runoff into the storage tank secondary containment area. The parking and traffic as side of the plant is diverted to a stormwater collection basin equipped with sump pumps. Accum diverted to a drainage ditch that traverses the southern boundary and discharges to E							western nd sulfuric tain berms ne western
	4.3	Provide the	location and a description of	existing structural and r	non-structural control	measures to reduce p	ollutants in
		stormwater	runoff. (See instructions for sp	pecific guidance.)		·	
			<del></del>	Stormwater Trea	atment	<del></del>	Codes
		Outfall Number		Control Measures a	nd Treatment		Codes from Exhibit 2F-1 (list)
			N/A		-		
1							
		ļ <u>.                                    </u>					
!							

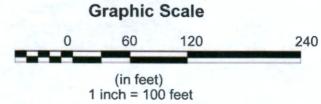
EPA Form 3510-2F (Revised 3-19) Page 2

### G2O Technologies, LLC Childersburg, Alabama SPCC FACILITY MAP



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EPA Identification Number			NPDES Permit Number AL0077186		ity Name chnologies	Form Approved 03/05/19 OMB No. 2040-0004
SECTIO	N 5. NO	N STORMWATER I	DISCHARGES (40 CFR 122.26(c))	(1)(i)(C))		
	5.1	I certify under p presence of nor discharges are d	enalty of law that the outfall(s) con-stormwater discharges. Moreove escribed in either an accompanying pe first and last name)	overed by this er, I certify th	at the outfalls identified a 2C, 2D, or 2E application.  Official title  Plant Manager  Date signed	s having non-stormwater
s,		***			09/25/20	20
arge	5.2	Provide the testin	g information requested in the tabl	e below.		
Non-Stormwater Discharges		Outfall Number	Description of Testing Meth-	od Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
rmwate			N/A			
Non-Sto						
		3/1				
			7.			
				Edd a		
SECTIO		NIFICANT LEAKS	OR SPILLS (40 CFR 122.26(c)(1)	(i)(D))		
Significant Leaks or Spills	6.1	Describe any sign	nificant leaks or spills of toxic or ha	zardous pollut	ants in the last three years.	
SECTIO	N 7. DIS	CHARGE INFORM	ATION (40 CFR 122.26(c)(1)(i)(E)	)		
	See th	e instructions to det	ermine the pollutants and paramet ts need to complete each table.		quired to monitor and, in turn	n, the tables you must
Discharge Information	7.1	Management of the second of th	rce or new discharge? ee instructions regarding submissio data.	on of	No → See instructions reactual data.	garding submission of
arge	Tables	A, B, C, and D				
Disch	7.2	Have you comple	eted Table A for each outfall?	П	No	

EPA	dentification	n Number	NPDES Permit Number AL0077186			
	7.3	Is the facilit	subject to an effluent limitation guide		_	OMB No. 2040-0004
t. ⇔ber.	7.5	wastewater		anne (ELG) or en	ident limitations in a	in NPDES permit for its process
ra ·		☐ Yes		V	No → SKIP to Ite	m 7.5.
R3.	7.4	Have you o	ompleted Table B by providing quantit	ative data for the	ose pollutants that a	re (1) limited either directly or
and the second	İ	l <b>—</b>	an ELG and/or (2) subject to effluent	limitations in an		ne facility's process wastewater?
,	7.5	☐ Yes	was have reason to haliave any nellet	ente in Cybibit 2	No	ha diasharran
	7.5	□ Yes	w or have reason to believe any pollut	ants in Exhibit 2	r–∠are present in to No → SKIP to Ite	•
9	7.6		sted all pollutants in Exhibit 2F-2 that			
F-9-	'		antitative data or an explanation for the			are present in the discharge and
		☐ Yes			No	
1.89	7.7	Do you qua	lify for a small business exemption un	der the criteria s	pecified in the Instru	ictions?
		☐ Yes	→SKIP to Item 7.18.	V	No	
	7.8	Do you kno	w or have reason to believe any pollut	ants in Exhibit 2	F-3 are present in t	he discharge?
:		☐ Yes		V	No → SKIP to ite	
panuj	7.9	Have you list Table C?	sted all pollutants in Exhibit 2F-3 that	you know or hav	e reason to believe	are present in the discharge in
Cont		☐ Yes			No	
tion	7.10	Do you exp	ect any of the pollutants in Exhibit 2F-	-3 to be discharg	ed in concentrations	s of 10 ppb or greater?
oma o		☐ Yes		V	No → SKIP to Ite	m 7.12.
Discharge Information Continued	7.11		rovided quantitative data in Table C foons of 10 ppb or greater?	r those pollutant	s in Exhibit 2F–3 tha	at you expect to be discharged in
isch		☐ Yes	•		No	
e in	7.12	Do you export of 100 ppb of	ect acrolein, acrylonitrile, 2,4-dinitroph or greater?	enol, or 2-methy	/l-4,6-dinitrophenol to	o be discharged in concentrations
:		☐ Yes		V	No → SKIP to Ite	m 7.14.
19	7.13	Have you production	rovided quantitative data in Table C fo in concentrations of 100 ppb or greate	r the pollutants i	dentified in Item 7.1.	2 that you expect to be
e (inc		☐ Yes			No	
	7.14		rovided quantitative data or an explan t concentrations less than 10 ppb (or l			
		☐ Yes		V	No	
***	7.15	Do you kno	w or have reason to believe any pollut	ants in Exhibit 2	F-4 are present in the	he discharge?
		☐ Yes		V	No → SKIP to Ite	m 7.17.
	7.16		sted pollutants in Exhibit 2F–4 that you in Table C?	u know or believ	e to be present in the	e discharge and provided an
1 .		☑ Yes			No	
100	7.17	Have you p	rovided information for the storm even	it(s) sampled in	Table D?	
		✓ Yes			No	

EPA Form 3510-2F (Revised 3-19) Page 4

EPA	Identification	n Number		Permit Number 0077186		adlity Name Technologies		Form Approved 03/05/19 OMB No. 2040-0004
	Used o	r Manufactur	ed Toxics			<del></del>		
Discharge Information Continued	7.18			ibits 2F–2 through 2F diate or final product o		ce or a component of a	a substanc	e used or
် ပြ		✓ Yes				No → SKIP to	Section 8	
mati	7.19	List the poll	utants below, inc	luding TCDD if applica	ible.			
e Infor		1. Aluminun	n, total	4.		7.		
charg		2.		5.		8.		
Dis		3.		6.		9.		
	N 8. BÌO 8.1	Do you hav	e any knowledge		that any biolo	gical test for acute or a r discharge within the		icity has been made on years?
sting		☐ Yes				No → SKIP to	o Section 9	9.
y Te	8.2	Identify the	tests and their pu	ırposes below.		Cal - Mad 4 - NDD	F6	•
oxicit		T	est(s)	Purpose of T	est(s)	Submitted to NPD Permitting Authori		Date Submitted
Biological Toxicity Testing Data				ļ		Yes 🗆	No	
liolog						Yes 🗆	No	
. Ш						☐ Yes ☐	No	
SECTIO	N 9. CON	ITRACT ANA	ĻYSIS INFORM	ATION (40 CFR 122.)	21(g)(12))			1
nto .	9.1	Were any of consulting fi		ported in Section 7 (or	n Tables A the	rough C) performed by	a contrac	t laboratory or
	ł	☑ Yes				No → SKIP to	o Section	10
	9.2	Provide info	mation for each	contract laboratory or	consulting fi	m below.		
		· · ·		Laboratory Nu	mber 1	Laboratory Numb	per 2	Laboratory Number 3
rmation		Name of lab	oratory/firm	Cox Environmental Hydrogeologic, LLC		Sutherland Environm Company, Inc.	ental	
Contract Analysis Information		Laboratory	address	2129 Brook Highlan Birmingham, AL 352		2515 5th Avenue Sou Birmingham, AL 3523		
Contra		Phone num	ber	(205) 470-3627		(205) 581-9500		
1		Pollutant(s)	analyzed	Flow, pH		T5S, Ammonia, Phosp Total Aluminum, BOD Oil & Grease, Total N	o, cod,	

EPA Form 3510-2F (Revised 3-19) Page 5

PA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19
	AL0077186	G2O Technologies	OMB No. 2040-0004

		Column 1	d to complete all sections or provide attachments.  Column 2
		☑ Section 1	w/ attachments (e.g., responses for additional outfalls)
		Section 2	□ w/ attachments
		Section 3	w/ site drainage map
1		Section 4	□ w/ attachments
		Section 5	□ w/ attachments
4.1		Section 6	w/ attachments
Іете		Section 7	☑ Table A ☐ w/ small business exemption request
on Sta			✓ Table B ✓ w/ analytical results as an attachment
Checklist and Cerlification Statement			☑ Table C ☑ Table D
Cert		Section 8	□ w/attachments
st and		Section 9	w/attachments (e.g., responses for additional contact laboratories or firms)
heckli		Section 10	
. 0	10.2	Certification Statement	
		accordance with a syste submitted. Based on my for gathering the informa-	law that this document and all attachments were prepared under my direction or supervision in m designed to assure that qualified personnel properly gather and evaluate the information inquiry of the person or persons who manage the system or those persons directly responsible tion, the information submitted is, to the best of my knowledge and belief, true, accurate, and at there are significant penalties for submitting false information, including the possibility of fine twing violations.
		Name (print or type first	and last name) Official title
		Joseph R. Dennis	Plant Manager
		Signature	Date signed 09/25/2020

EPA Identification Number NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19
AL0077186 G2O Technologies DSN001S OMB No. 2040-0004

n	a	Maximum Dai (specify		Average Dail (specify		Number of Storm	Source of Information
	Pollutant or Parameter	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only, use codes in instructions)
1.	Oil and grease	BDL			<b>5.</b>	1	Facility Grounds
2.	Biochemical oxygen demand (BOD <sub>5</sub> )	10	mg/L			1	Facility Grounds
3.	Chemical oxygen demand (COD)	13	mg/L			1	Facility Grounds
4.	Total suspended solids (TSS)	14	mg/L		-	1	Facility Grounds
5.	Total phosphorus	BDL	mg/L			1	Facility Grounds
6.	Total Kjeldahl nitrogen (TKN)	-	-			-	Facility Grounds
7.	Total nitrogen (as N)	4.10	mg/L			1	Facility Grounds
	pH (minimum)	6.18				1	Facility Grounds
8.	pH (maximum)	6.89				1	Facility Grounds

<sup>&</sup>lt;sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Form 3510-2F (Revised 3-19) . Page 7

NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19
AL0077186 G2O Technologies DSN002S OMB No. 2040-0004

	•	Maximum Dai (specify		Average Dail (specify		Number of Storm	Source of Information
	Pollutant or Parameter	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
1.	Oil and grease	1			."	1	Facility Grounds
2.	Biochemical oxygen demand (BOD <sub>5</sub> )	9	mg/L			1	Facility Grounds
3.	Chemical oxygen demand (COD)	12	mg/L			1	Facility Grounds
4.	Total suspended solids (TSS)	6	mg/L			1	Facility Grounds
5.	Total phosphorus	BDL	mg/L		_	1	Facility Grounds
6.	Total Kjeldahl nitrogen (TKN)	-	-		-	-	Facility Grounds
7.	Total nitrogen (as N)	2.50	mg/L			1	Facility Grounds
	pH (minimum)	6.79				1	Facility Grounds
8.	pH (maximum)	7.01				1	Facility Grounds

<sup>&</sup>lt;sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number

Form Approved 03/05/	19	
OMB No. 2040-00		

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	
	AL0077186	G2O Technologies	DSN001S	

### TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))1

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	Maximum Dail (specify	ly Discharge units)	Average Dail (specify	y Discharge units)	Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
Aluminum, Total	1.382 mg/L				1	Facility Grounds
						-
	-					
					-	
						_
						_
						-
	-					
				-		
				-		

<sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Form 3510-2F (Revised 3-19)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
	· AL0077186	G2O Technologies	DSNOO2S	OMB No. 2040-0004

### TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122:26(c)(1)(i)(E)(4) and 40 CFR 122:21(g)(7)(vi)(A))1

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.    Maximum Dally Discharge   Average Daily Discharge   Source of the instructions for additional details and requirements.						
	(specify	units)	(specify	y Discharge runits)	Number of Storm	Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; us codes in instructions
Aluminum, Total	0.079 mg/L				1	Facility Ground
<del></del>						
		-				
<del></del>				•	-	
_ <del></del>				-		
<del></del>						

<sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

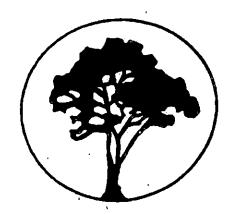
EPA Form 3510-2F (Revised 3-19)

CHAIN OF CUSTODY SEND REPORT TO: Invoice # ANALYSIS REQUEST Name: Sutherland Company: Environmental Company, Inc. Address: 2129 Book Page 2515 5th Avenue South Birmingham, AL 35233 Phone#: 295 470 3627 Cell# PHONE: (205)581-9500 Client P.O. # (oxui eiclord .com E-mail: suthlab@bellsouth.net E-mail(s): CLIENT: GEO Spec SAMPLER(S): PROJECT NPDES NAME/#: (print) ANALYSIS REQUESTED / METHOD C@A DATE DELIVERED: \ \ \ \ \ \ Number of sample TIME DATE LAB ID FIELD ID SAMPLE DESCRIPTION (matrix) containers Cellected Collected 318 DONOOZ 1300 × × X × × × 7 812 × ۶ **Y** DSNOOD 1383 يعز × × 128120 6 MA nla Preservative: (a)HCL, (b)HNO<sub>3</sub>, (c)H<sub>2</sub>SO<sub>4</sub>, (d)NaOH, (e) Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, (f) H<sub>3</sub>PO<sub>4</sub>, (g)Zn Acctate Preservative: a Last revised 4 9 12/13/19 Container type: (a) Amber, (g) Glass, (p) Plastic, (v) VOC Vial, (air) air bag Container: Turn Around Time Received by: Date Time Relinquished by Sampler: Date Time 3-DAY 1-DAY Signed: Signed: ક્ષાર 1430 Standard: RUSH: 2-DAY SAME DAY Received by: Date Time Remarks: Time Relinquished by: Date Signed: Signed: Time Time Relinquished by: Date Signed: Refrigerated upon receipt: (yes) 100

# Sutherland

### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: September 4, 2020 CEHG Report Date: Attention: Mr. Michael Cox Reference # 43613 Address: 2129 Brook Highland Ridge P.O. # verbal Birmingham, AL 35242 Project ID: **NPDES** 

Sample Matrix: Sample Collector: M. Cox water Date Received: 8/28/20 Method Reference: Hach, Standard Methods & EPA600 Date /Time Collected: 8/28/20@1300 Field ID: **DSN 002** Lab ID: 218515

Parameter	Result	Units	Date / Ti	me Assay	Analyst	Method	D.L.
pΗ	6.79	ŚÚ	8/28/20	1505	CRR	SM4500-H+	па
TSS	6	mg/L	8/31/20	1130	CRR	SM 2540D	1
Ammonia	BDL	· mg/L	8/31/20	1233	CCR	SM4500NH3-G	0.10
Phosphorus, Total	BDL	mg/L	8/31/20	1215	CRR	SM4500-P E	0.05
Áluminum, Total Rec.	0.079	mg/L	9/2/20	1141 - {	· KD	E 200.8	0.010
BOD-5	9	mg/L	9/2/20	1350	CRR	SM 5210B	11
Oil & Grease	1	mg/L	9/2/20	1100	CCR	SM 5520G	1
COD	12	mg/L	9/3/20	1430	CRR	SM 5220D	1
Nitrogen, Total	2.50	mg/L	8/31/20	1245	CRR	H 10208	0.10

Sample Matrix: Sample Collector: M. Cox water Date Received: 8/28/20 Method Reference: Hach, Standard Methods & EPA600 Date /Time Collected: 8/28/20 @ 1320 Field ID: **DSN 001** Lab ID: 218516

Parameter	Result	Units	Date / Tip	me Assay	Analyst	Method	D.L.
pН	6.18	SU	8/28/20	1507	CRR	SM4500-H+	na
TSS	14	mg/L	8/31/20	1130	CRR	SM 2540D	i
Ammonia	BDL	mg/L	8/31/20	1233	CCR	SM4500NH3-G	0.10
Phosphorus, Total	BDL	mg/L	8/31/20	1215	CRR	SM4500-P E	0.05
Aluminum, Total Rec.	1.382	mg/L	9/2/20	1142	KD -	E 200.8	0.010
BOD-5	10	mg/L	9/2/20	1350	CRR	SM 5210B	1
Oil & Grease	BDL	mg/L	9/2/20	1103	CCR	SM 5520G	1
COD	13	mg/L	9/3/20	1430	CRR	SM 5220D	1
Nitrogen, Total	4.10	mg/L	8/31/20	1245	CRR	H 10208	0.10

BDL = Below Detection Limit DL = Detection Limit, Method

COD Start Date/Time: BOD Start Date/Time: 9/3/20 @ 1220

8/28/20@1500

Respectfully submitted,

/ QAQC

EPA Laboratory ID AL01084

Kevin Doriety **Analytical Chemist** 

Kin Der

Quality Environmental Analytical Services

### Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: 8 28 20 Invoice #	43613	
Method of Delivery: Client:	CEH 6	
1. Did any containers arrive broken?	YES NO	
* If so, please state field ID with analysis of broken sample(s)		
2. Were cooler(s) sealed upon arrival?	VYES NO	NA
3. Were the samples received at the proper teamperature (4°C+/- 2°C)?	VES NO	NA
4. Did a chain of custody accompany the samples?	YES NO	]
* Was it properly filled out?	YES NO	
5. Were correct containers used for the analysis requested?	YES NO	
6. Were all containers properly preserved?	YES NO	ÑΑ
7. Were all water samples received at the proper pH?	VYES NO	NA .
8. If VOA vials were present, was there any head space?	YES YO	NA
* If so, please state field ID of deficient sample(s):		
9. Were all containers properly labeled and match chain of custody?	YES, NO	]
10. Did containers arrive within holding time of analysis?	YES NO	] ·
* If not, please state field ID and analysis of sample(s) out of holding time:	<del>.</del> .	
11. Was client informed of any/all deficiencies in sample check-in?	YES NO	V <sub>NA</sub>
12. Were any samples rejected?	YES NO	]
* If so, please state field ID of rejected sample(s):		

Sample Custodian (signed):

M Watts

### Sutherland Environmental Read and Review Checklist

Is the client and the sample collector(s) accurately noted on report?	NO YAS	NO YES
2. Do all dates match the COC on the report?	NO YAS	NO YPS
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO Y	NO YES
4. Are all methods and method references correct on report	? NO YAS	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO Y	NO Y
6. Is the report formatted correctly?	NO YES	NO YES
7. Does the following information on report correspond to printout information from the analytical instrumentation		
Sample Matrix	NO Y	NO XES
Analyst	NO YES	NO YES
Analysis Date/Time  Analyte concentration	YES	NO YES
Analyte concentration	NO YES	NO YES
Units	NO YES	NO YES
Dilution Factors/Conversions	NO XES	NO YES
Detection/Reporting/Quant_Limits	NO SES	NO /YES
QC Reviewed:		/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Initial*:  * MJH = Michael Heard, KD = Ko	evin Doriety, MSH == Matt Hagema	n, KH = Kelly Hester
PDF:	42613	
1101001	Smith of the Control	

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
	AL0077186	G2O Technologies	DSM001S	OMB No. 2040-0004

### TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))1

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

agenta de la marchane insignanter un a da gran	. Maximum Da (specif	ily Discharge	Average Dail	y Discharge (units)	Number of Storm	Source of Information	
Pollutant and CAS Number (if available)	Maximum Da (specif Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Average Dail (specify Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)	
N/A							
			_				
	_	<u>-</u>		-			
<u></u>				:			
	-						
					•		
, ·							
			<u> </u>				

<sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Form 3510-2F (Revised 3-19)

EPA Identification Number NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19
AL0077186 G2O Technologies DSN002S OMB No. 2040-0004

### TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))1

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

details and requirements.		· · · · · · · · · · · · · · · · · · ·	i na sampun Aniikilian ma iii		* N	
	Maximum Da (specif	ily Discharge yunits)	Average Dail (specify	y Discharge		Source of
Pollutant and CAS Number (rayaltable)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	Information (new source/new dischargers only, use codes in instructions)
N/A						
·	•					
<u></u>						
	-					
	-					
			-			
					-	
			-			

<sup>&</sup>lt;sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Form 3510-2F (Revised 3-19)

١,

				•
EPA Identification Number	NPDES Permit Number	Facility name	Outfall Number	Form Approved 03/05/19
	AL0077186	G20 Technologies	DSN001S	OMB No. 2040-0004

### TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hous)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
08/28/2020		,			
	11 hours	0.53 inches	75	· 5 gpm	3,300 gals.

Provide a description of the method of flow measurement or estimate. Standard methods and EPA 600

EPA Form 3510-2F (Revised 3-19) Page 13 EPA Identification Number NPDES Permit Number Facility name Outfall Number AL0077186 G2O Technologies DSN002S

### TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
08/28/2020					
	11 hours	0.53 inches	75	1 gpm	660 gals.
·					

Provide a description of the method of flow measurement or estimate.

Standard methods and EPA 600

EPA Form 3510-2F (Revised 3-19)



CHILDERSBURG 125 9TH AVE SW

CHILDERSBURG, AL 35044-1641 (800)275-8777

09/30/2020 01:29 PM
Product Qty Unit Price
Price

Product Qty Unit Price
Price

Priority Mail® 2-Day 1 \$7.75
Flat Rate Env
Montgomory Al 36130

at Rate Env
Montgomery, AL 36130
Flat Rate
Expected Delivery Date
Sat 10/03/2020

Sat 10/03/2020 Certified Mail® \$3.55 Tracking #: 70191640000067464124 Return Receipt \$2.85

Tracking #:
9590 9402 3669 7335 5532 21
Total \$14.15

Grand Total: \$14.15

Credit Card Remitted \$14.15:
Card Name: MasterCard

Account #: XXXXXXXXXXXXXXX7444
Approval #: 077651
Transaction #: 100
AID: A0000000041010 Chip
AL: MASTERCARD

PIN: Verified

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Due to limited transportation

availability as a result of nationwide COVID-19 impacts

to get the latest status. Standard Message and Data rates may apply. You may also visit www.usps.com USPS Tracking or call 1-800-222-1811.

Save this receipt as evidence of insurance. For information on filing an insurance claim on the same and insurance claim of th

### Jackson, Scott A

**Subject:** 

RE: NPDES Permit AL0077186 - Updated Forms

**From:** Dennis, Joe <Joe.Dennis@GEOSC.com> **Sent:** Saturday, December 26, 2020 10:57 AM

**To:** Jackson, Scott A <scott.jackson@adem.alabama.gov> **Subject:** RE: NPDES Permit AL0077186 - Updated Forms

Mr. Jackson,

I hope you and your family had a Merry Christmas. Attached are the updated documents you requested. My apologies for just getting this back to you but I was offline for a couple of days due to a family emergency. Please let me know if there is anything else needed to complete the application. Thank you for your help in this matter.

Thanks,

### Joseph R. Dennis

Director, Environmental Health & Safety G2O Technologies

Phone: (256) 378-5556

E-Mail: joe.dennis@geosc.com

### SECTION J- RECEIVING WATERS

Outfall No.	Receiving Water(s)	303(d) Se	gment?	Included in TMDL?*	
DSN001S	UNNAMED TRIBUTARY TO COOSA RIVER	☐ Yes	⊠No	☐ Yes	⊠No
DSN002S	UNNAMED TRIBUTARY TO COOSA RIVER	☐ Yes	⊠No	☐ Yes	⊠No
		☐ Yes	□No	☐ Yes	□No
		☐ Yes	□No	☐ Yes	□No
		☐ Yes	□No	☐ Yes	□No

<sup>\*</sup>If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

- (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);
- (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);
- (3) Requested interim limitations, if applicable;
- (4) Date of final compliance with the TMDL limitations; and,
- (5) Any other additional information available to support requested compliance schedule.

#### SECTION K - APPLICATION CERTIFICATION

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible Official:	la l	Date Signed: 12/26/30
Name: Joseph R. Dennis	Title: Plant Manag	ner
If the Responsible Official signing this application	is <u>not</u> identified in Section A.7, provide the	following information:
Mailing Address: 16693 Plant Road		
City: Childersburg	State: AL	Zip: <u>35044</u>
Phone Number: 256-378-5556	Email Address: joe.dennis@	<u>Q</u> geosc.com

#### 335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
  - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
  - (b) In the case of a partnership, by a general partner;
  - (c) In the case of a sole proprietorship, by the proprietor; or
  - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

EPA Identification Number NPDES Permit Number Facility Name AL0077186

**G20** Technologies

Form Approved 03/05/19 OMB No. 2040-0004

Form



## **U.S Environmental Protection Agency**

2F	9	Application for NPDES Permit to Discharge Wastewater									
NPDES					ISCHARG	SES AS	SOCIAT	TED WITH	INDUST	RIAL ACTIV	/ITY
SECTIO			TION (40 CFR 122.2								
	1.1	Outfall	ormation on each of th		outtalls in						
		Number	Receiving Water	Name		Latitu	de			Longitud	е
Outfall Location		DSN001S	UNNAMED TRIBUTA	20 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	33°	19	49"	N	86°	21′	32" W
		DSN002S	UNNAMED TRIBUTA		33°	19′	52"	N	86°	21′	21" W
					0	,	"	1 2	٥	,	"
0					0	,	,,		0	,	"
						,	,,			,	"
0=0=101			6 (40 CFR 122.21(g)(								
2.	2.2	upgrading, affect the d	esently required by an or operating wastewa ischarges described i tify each applicable pi	iter treatment this appl	ent equipmication?	ent or pra	actices o	or any other		ental progran	
		Brief Identification and Affec			ted Outfalls					Final Compliance Dates	
					tfall numbers)		Source(s) of Discharge			Required	d Projected
Improvements											
	2.3	Have you a	ttached sheets descri	bing any a	dditional w	ater pollu	ition con	trol progra	ms (or othe	r environme	ntal projects
	2.0	Have you attached sheets describing any additional water pollution control programs (or other environmental project that may affect your discharges) that you now have underway or planned? (Optional Item)  Yes  No									nai projecto